

Case No CBI

8EHQ-0694-13088

RECEIVED
JUN 27 1994

Shell Oil Company



One Shell Plaza
P.O. Box 4320
Houston, Texas 77210

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(A)



8EHQ-94-13088

INIT 06/27/94

June 24, 1994

VIA OVERNIGHT MAIL

Document Processing Center (TS-790)
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460
ATTN: 8(e) Coordinator



88940000330

Dear Sir:

SUBJECT: ETHYLENE DIBROMIDE (EDB) SPILL FROM SHELL CHEMICAL
COMPANY'S BELPRE, OHIO PLANT INTO OHIO RIVER IS NOT
DISSIPATING AS RAPIDLY AS ANTICIPATED

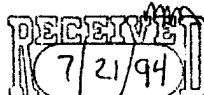
The following information is submitted under TSCA 8(e).

Ethylene Dibromide (EDB) entered a nearby creek in the runoff of water used to fight a fire which occurred at Shell's Belpre, Ohio Chemical Plant on May 27, 1994. On June 3, 1994 Shell reported that concentrations of EDB in the Ohio river were in the range of 5-7 ppb, a level below the EPA 10-day Health Advisory Level of 8 ppb. After approximately 3 weeks, EDB concentrations in the Ohio river are still 2-3 ppb. Since the reported half-life for EDB when spilled into a river has been reported to be approximately one day (EPA, 1982), it appears that the expected half-life for removal from the Ohio river is being exceeded.

This report is filed to provide information EPA may find useful. In no way is it intended as a waiver of any rights or privileges belonging to Shell Oil Company as the reporting corporation, its agents or employees. The reporting corporation, its agents and employees, reserve the right to object to this report's use or admissibility in any subsequent judicial or administrative proceeding against the corporation, its agents or employees.

This report has been compiled based on information available as of the date of filing. The corporation, its agents and employees reserve the right to supplement the data contained in this report, and to revise and amend any conclusions drawn therefrom.

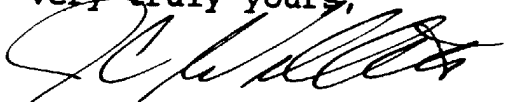
This report contains no confidential business information.



The following person should be contacted if you have questions or a need for discussion.

J. C. Willett
Manager, Product Safety and Compliance
Shell Oil Company
P.O. Box 4320
Houston, TX 77210
Telephone No. 713-241-6958
Fax. 713-241-3325

Very truly yours,



for R. N. Shulman, General Manager
Health, Safety, and Environment
Shell Oil Company

THG/sjh



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

R.N. Shulman
General Manager
Health, Safety, and Environment
Shell Oil Company
One Shell Plaza
P.O. Box 4320
Houston, Texas 77210

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

NOV 04 1994

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA 8(e) submission to:

Document Processing Center (7407)
Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Terry R. O'Bryan
Terry R. O'Bryan
Risk Analysis Branch

Enclosure

13088 A



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CECATSTRIDGE TRACKING DBASE ENTRY FORM

CECATS DATA

MISSION # BEHQ. 0694-13088 SEQ. A

TYPE: INT SUPP FLWP

INITIAL NAME: Shell Oil Company

INFORMATION REQUESTED: FLWP DATE:

0501 NO INFO REQUESTED

0502 INFO REQUESTED (TECH)

0503 INFO REQUESTED (VOL. ACTIONS)

0504 INFO REQUESTED (REPORTING RATIONALE)

DISPOSITION:
0639 REFER TO CHEMICAL SCREENING
0678 CAP NOTICE

VOLUNTARY ACTIONS:

0401 NO ACTION REPORTED

0402 STUDIES PLANNED FOR FUTURE

0403 NOTIFICATION OF WORKING STATUS

0404 LABEL/MSDS CHANGES

0405 PROCESS/ANALYSIS CHANGES

0406 APP/USE DISCONTINUED

0407 PRODUCTION DISCONTINUED

0408 CONFIDENTIAL

START DATE: 06/24/94 OTS DATE: 06/27/94 CSRAD DATE: 07/21/94

CHEMICAL NAME:

CAS#

106-93-4

INFORMATION TYPE:

P F C

INFORMATION TYPE:

P F C

INFORMATION TYPE:

P F C

0301	ONCO (HUMAN)	01 02 04	0216	EPICLIN	01 02 04	0241	IMMUNO (ANIMAL)	01 02 04
0302	ONCO (ANIMAL)	01 02 04	0217	HUMAN EXPOS (PROD CONTAM)	01 02 04	0242	IMMUNO (HUMAN)	01 02 04
0303	CELL TRANS (IN VITRO)	01 02 04	0218	HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243	CHEM/PHYS PROP	01 02 04
0304	MUTA (IN VITRO)	01 02 04	0219	HUMAN EXPOS (MONITORING)	01 02 04	0244	CLASTO (IN VITRO)	01 02 04
0305	MUTA (IN VIVO)	01 02 04	0220	ECOAQUA TOX	01 02 04	0245	CLASTO (ANIMAL)	01 02 04
0306	REPRO/TERATO (HUMAN)	01 02 04	0221	ENV. OCCUR/ELFATE	01 02 04	0246	CLASTO (HUMAN)	01 02 04
0307	REPRO/TERATO (ANIMAL)	01 02 04	0222	EMER INCI OF ENV CONTAM	01 02 04	0247	DNA DAM/REPAIR	01 02 04
0308	NEURO (HUMAN)	01 02 04	0223	RESPONSE REQUEST DELAY	01 02 04	0248	PROD/USE/PROC	01 02 04
0309	NEURO (ANIMAL)	01 02 04	0224	PROD/COMP/CIEM ID	01 02 04	0251	MSDS	01 02 04
02 0	ACUTE TOX. (HUMAN)	01 02 04	0225	REPORTING RATIONALE	01 02 04	0299	OTHER	01 02 04
02 1	CHIR. TOX. (HUMAN)	01 02 04	0226	CONFIDENTIAL	01 02 04			
02 2	ACUTE TOX. (ANIMAL)	01 02 04	0227	ALLERG (HUMAN)	01 02 04			
02 3	SUB ACUTE TOX (ANIMAL)	01 02 04	0228	ALLERG (ANIMAL)	01 02 04			
02 4	SUB CHRONIC TOX (ANIMAL)	01 02 04	0229	METAB/PHARMACO (ANIMAL)	01 02 04			
02 5	CHRONIC TOX (ANIMAL)	01 02 04	0240	METAB/PHARMACO (HUMAN)	01 02 04			

IMAGE DATA: NON-CBI INVENTORY

ONGOING REVIEW

SPECIES

TOXICOLOGICAL CONCERN:

USE:

PRODUCTION:

YES

N/A

N/A

NO

YES (DROP/REFER)

LOW

MED

HIGH

DETERMINE

NO (CONTINUE)

REFER:

HIGH

COMMENTS:

Non-Cap